



1653

# TRANSMITTAL FORM

(To be used for all correspondence  
after initial filing)

Application Number	09/393,441
Filing Date	September 8, 1999
First Named Inventor	Christen M. Anderson et al.
Art Unit	1653
Examiner Name	Sheridan K. Snedden
Attorney Docket No.	660088.420C1

## ENCLOSURES (check all that apply)

- ☒ Fee Transmittal Form
- ☒ Fee Attached
- ☐ Amendment/Response
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement; Forms PTO-1449 (14 sheets)
- ☒ Cited References
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts under 37 C.F.R. 1.52 or 1.53
- ☐ Response to Missing Parts/Incomplete Application

- ☐ Drawing(s)
- ☐ Request for Corrected Filing Receipt
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation, Change of Correspondence Address
- ☐ Declaration
- ☐ Statement under 37 CFR 3.73(b)
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) \_\_\_\_\_
- ☐ Landscape Table on CD

- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC (*Appeal Notice, Brief, Reply Brief*)
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Return Receipt Postcard
- ☐ Other Enclosure(s) (*please identify below*):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Seed Intellectual Property Law Group PLLC	Customer Number	00500
Signature			
Printed Name	Stephen J. Rosenman, Ph.D.		
Date	March 1, 2005	Reg. No.	43,058

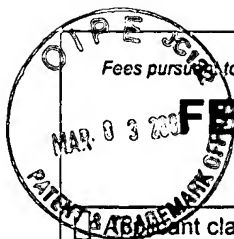
## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature		
Typed or printed name	Jason Anover	Date: March 1, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

566800



Effective on 12/02/2004.  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL for FY 2005

## Complete if Known

Application Number	09/393,441
Filing Date	September 8, 1999
First Named Inventor	Christen M. Anderson
Examiner Name	Sheridan K. Snedden
Art Unit	1653
Attorney Docket No.	660088.420C1

☐ Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT (\$180.00)**

### METHOD OF PAYMENT (check all that apply)

- ☒ Check ☐ Credit Card ☐ Money Order ☐ Other (please identify): \_\_\_\_\_
- ☐ Deposit Account Deposit Account Number: 19-1090 Deposit Account Name: Seed IP Law Group PLLC
- For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)
- ☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
- ☐ Charge any additional fee(s) or underpayments ☒ Charge any underpayments or credit any overpayments of fee(s) under 37 CFR 1.16 and 1.17

Warning: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

### FEE CALCULATION

#### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	<u>Small Entity</u> Fee (\$)	Fee (\$)	<u>Small Entity</u> Fee (\$)	Fee (\$)	<u>Small Entity</u> Fee (\$)	
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Provisional	200	100	0	0	0	0	_____

#### 2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	<u>Small Entity</u> Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

<u>Total Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Multiple Dependent Claims</u>
_____ -20 or HP = _____	X	_____ = _____	_____	<u>Fee (\$)</u> <u>Fee Paid (\$)</u>

HP = highest number of total claims paid for, if greater than 20

<u>Indep. Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
_____ -3 or HP = _____	X	_____ = _____	_____

HP = highest number of independent claims paid for, if greater than 3

#### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)) the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<u>Total Sheets</u>	<u>Extra Sheets</u>	<u>Number of each additional 50 or fraction thereof</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
_____ -100 = _____	/50 = _____	(round up to a whole number) x _____	_____	_____

#### 4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Submission of Information Disclosure Statement

180

#### SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	43,058	Telephone	206-622-4900
Name (Print/Type)	Stephen J. Rosenman, Ph.D.	Date	March 1, 2005		



PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

March 1, 2005  
Date

Jason Anover

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Christen M. Anderson et al.  
Application No. : 09/393,441  
Filed : September 8, 1999  
For : PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR  
(ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS  
THEREFOR

Examiner : Sheridan K. Snedden  
Art Unit : 1653  
Docket No. : 660088.420C1  
Date : March 1, 2005

Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 CFR 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Form PTO-1449. Copies of the cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of all other cited references are enclosed. As to any reference cited, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103,

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and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 CFR 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Fourth Supplemental Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

A fee of \$180 is submitted in accordance with 37 CFR 1.97(c). The Director is authorized to charge any other fees which may be required, or credit any overpayment to Deposit Account No. 19-1090.

Respectfully submitted,  
Seed Intellectual Property Law Group PLLC



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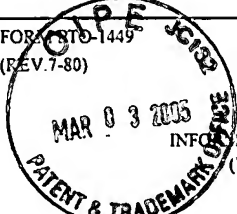
Stephen J. Rosenman, Ph.D.  
Registration No. 43,058

Enclosures:

Postcard  
Check  
Form PTO-1449  
Cited References (148)

701 Fifth Avenue, Suite 6300  
Seattle, Washington 98104-7092  
Phone: (206) 622-4900  
Fax: (206) 682-6031

566807

	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 660088.420C1	APPLICATION NO. 09/393,441
	INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			
	APPLICANTS Christen M. Anderson et al.		FILING DATE September 8, 1999	GROUP ART UNIT 1653

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,011,912	04/30/91	Hopp et al.	530	387	
	AB	5,447,852	09/05/95	Friedman et al.	435	69.7	
	AC	5,523,227	06/04/96	Bram et al.	435	240.2	
	AD	5,773,225	06/30/98	Luban et al.	435	7.8	
	AE	5,780,235	07/14/98	Bandman et al.	435	6	
	AF	5,968,802	10/19/99	Wang et al.	435	233	
	AG	6,013,858	01/11/00	Wallace et al.	800	18	
	AH	6,140,067	10/31/00	Anderson et al.	435	26	
	AI	6,150,415	11/21/00	Hammock et al.	514	588	
	AJ	6,183,948	02/06/01	Marban et al.	435	4	

## FOREIGN PATENT DOCUMENTS


		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	WO 98/06737	02/19/98	WIPO		
	AL	WO 98/19714	05/14/98	WIPO		
	AM	WO 99/07845	02/18/99	WIPO		
	AN	0 723 018 B1	08/11/99	EP		
	AO	WO 00/19200	04/06/00	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Ausubel, F., et al. (eds.), <i>Short Protocols in Molecular Biology</i> , 3 <sup>rd</sup> Ed., John Wiley & Sons, Inc. New York, 1997, Chapter 13, pp. 1-35, and Chapter 16, pp. 1-7, 16-23, 25-31, 37-53, and 58-62.
	AQ	Battini et al., "Molecular Cloning of a cDNA for a Human ADP/ATP Carrier Which is Growth-Regulated," <i>J. Biol. Chem.</i> 262(9):4355-4359, March 25, 1987
	AR	Beavis et al., "On the Regulation of K <sup>+</sup> Uniport in Intact Mitochondria by Adenine Nucleotides and Nucleotide Analogs," <i>J. Biol. Chem.</i> 268(2):997-1004, January 15, 1993.

EXAMINER	DATE CONSIDERED
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\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

 FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.	APPLICATION NO.
			660088.420C1	09/393,441
			APPLICANTS Christen M. Anderson et al.	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			FILING DATE	GROUP ART UNIT
			September 8, 1999	1653

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	6,211,440	04/03/01	Briggs et al.	800	301	
	BB	6,316,219	11/13/01	Krief et al.	435	69.1	
	BC	2001/0044144	11/22/01	Anderson et al.	435	183	

## FOREIGN PATENT DOCUMENTS

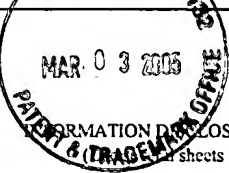
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BC	WO 00/26370	05/11/00	WIPO		
	BD	WO 01/02598 A2	01/11/01	WIPO		
	BE	WO 01/32876 A2	05/10/01	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BF	Bernardi et al., "Recent Progress on Regulation of the Mitochondrial Permeability Transition Pore; a Cyclosporin-Sensitive Pore in the Inner Mitochondrial Membrane," <i>J. of Bioenergetics and Biomembranes</i> 26(5):509-517, 1994.
	BG	Beutner et al., "Complexes Between Porin, Hexokinase, Mitochondrial Creatine Kinase and Adenylate Translocator Display Properties of the Permeability Transition Pore. Implication for Regulation of Permeability Transition by the Kinases," <i>Biochim. Biophys. Acta</i> 1368:7-18, 1998.
	BH	Brustovetsky and Klingenberg, "Mitochondrial ADP/ATP Carrier Can Be Reversibly Converted Into a Large Channel by Ca <sup>2+</sup> ," <i>Biochemistry</i> 35:8483-8488, 1996.
	BI	Cacalano et al., "Evidence for a Functional Receptor for Cyclosporin A on the Surface of Lymphocytes," <i>Proc. Natl. Acad. Sci. USA</i> 89:4353-4357, May 1992.
	BJ	Carra and Schleif, "Variation of Half-Site Organization and DNA Looping by AraC Protein," <i>The EMBO J.</i> 12(1):35-44, 1993.
	BK	Chung, A., et al., "Transcriptional Control of Nuclear Genes for the Mitochondrial Muscle ADP/ATP Translocator and the ATP Synthase Beta Subunit. Multiple Factors Interact with the OXBOX/REBOX Promoter Sequences," <i>J. Biol. Chem.</i> 267(29):21154-61, October 15, 1992.
	BL	Costantini et al., "On the Effects of Paraquat on Isolated Mitochondria. Evidence that Paraquat Causes Opening of the Cyclosporin A-Sensitive Permeability Transition Pore Synergistically with Nitric Oxide," <i>Toxicology</i> 99:77-88, 1995.

EXAMINER	DATE CONSIDERED
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FORM PTO-1449 (REV.7-80)	 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 660088.420C1	APPLICATION NO 09/393,441
INFORMATION DISCLOSURE STATEMENT (2 sheets if necessary)		APPLICANTS Christen M. Anderson et al.	
		FILING DATE September 8, 1999	GROUP ART UNIT 1653

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CA						

## FOREIGN PATENT DOCUMENTS

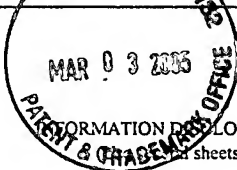
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
CB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CC	Crompton et al., "Cyclophilin-D Binds Strongly to Complexes of the Voltage-Dependent Anion Channel and the Adenine Nucleotide Translocase to form the Permeability Transition Pose," <i>Eur. J. Biochem.</i> 258:729-735, 1998.
CD	Cruz-Orive and Weibel, "Recent Stereological Methods for Cell Biology: a Brief Survey," <i>Am. J. Physiol.</i> 258:L148-L156, 1990.
CE	Doerner et al., "Tissue-Specific Transcription Pattern of the Adenine Nucleotide Translocase Isoforms in Humans," <i>FEBS Letters</i> 414(2):258-262, 1997.
CF	Dörner et al., "Transcription of the Adenine Nucleotide Translocase Isoforms in Various Types of Tissues in the Rat," <i>Biochimica et Biophysica Acta</i> 1417:16-24, 1999.
CG	Dümmmler et al., "Regulation of Adenine Nucleotide Translocase and Glycerol 3-Phosphate Dehydrogenase Expression by Thyroid Hormones In Different Rat Tissues," <i>Biochem. J.</i> 317:913-918, 1996.
CH	Ernster and Schatz, "Mitochondria: A Historical Review," <i>J. Cell. Biol.</i> 91(3 pt.2):227s-255s, December 1981.
CI	Faure-Vigny et al., "Expression of Oxidative Phosphorylation Genes in Renal Tumors and Tumoral Cell Lines," <i>Molecular Carcinogenesis</i> 16:165-172, 1996.
CJ	Fiermonte, G., et al., Abundant Bacterial Expression and Reconstitution of an Intrinsic Membrane-transport Protein from Bovine Mitochondria," <i>Biochem. J.</i> 294 ( Pt 1):293-9, August 15, 1993.
CK	Fischer and Schmid, "The Mechanism of Protein Folding. Implications of in Vitro Refolding Models for de Novo Protein Folding and Translocation in the Cell," <i>Biochemistry</i> 29(9):2205-2212, March 1990.
CL	Franke and Luban, "Cyclophilin and GAG in HIV-1 Replication and Pathogenesis," <i>Advances in Experimental Medicine and Biology</i> 374:217-228, 1995.

EXAMINER	DATE CONSIDERED
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\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 660088.420C1	APPLICATION NO. 09/393,441	
		INFORMATION DISCLOSURE STATEMENT (Indicate the number of sheets if necessary)				APPLICANTS Christen M. Anderson et al.
		FILING DATE September 8, 1999		GROUP ART UNIT 1653		

## U.S. PATENT DOCUMENTS

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DA						

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
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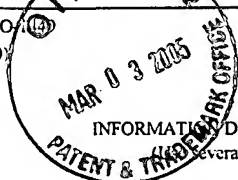
## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DC	Galat, "Peptidylproline <i>Cis-Trans</i> -Isomerases: Immunophilins," <i>Eur. J. Biochem.</i> 216:689-707, 1993.
DD	GenBank Acc. No. N86710, April 1, 1996.
DE	GenBank Acc. No. AA490268, June 25, 1997.
DF	GenBank Acc. No. AA874983, March 20, 1998.
DG	GenBank Acc. No. AA955975, May 7, 1998.
DH	Genbank Acc. No. AAA58434, December 31, 1994.
DI	GenBank Acc. No. AAB08453, September 18, 1996.
DJ	GenBank Acc. No. AF020338, September 24, 1997.
DK	GenBank Acc. No. AF039571, February 2, 1999.
DL	GenBank Acc. No. AF178950, October 20, 1999.
DM	GenBank Acc. No. AF178951, October 20, 1999.
DN	GenBank Acc. No. AF178952, October 20, 1999.
DO	GenBank Acc. No. AI668824, May 14, 1999.
DP	GenBank Acc. No. AI875905, July 21, 1999.
DQ	GenBank Acc. No. AI892042, July 27, 1999.
DR	GenBank Acc. No. L06132, January 14, 1995.

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FORM PTO-101 (REV. 7-80) 	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO. 660088.420C1	APPLICATION NO. 09/393,441
			APPLICANTS Christen M. Anderson et al.	
			FILING DATE September 8, 1999	GROUP ART UNIT 1653

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
EA						

## FOREIGN PATENT DOCUMENTS

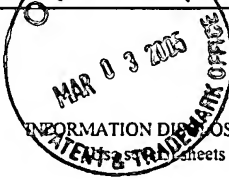
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
EB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EC	GenBank Acc. No. L06328, January 14, 1995.
ED	GenBank Acc. No. L21950, May 20, 1994.
EE	GenBank Acc. No. L21951, May 20, 1994.
EF	GenBank Acc. No. M34907, April 27, 1993.
EG	GenBank Acc. No. M36035, December 20, 1993.
EH	GenBank Acc. No. M80254, December 31, 1994.
EI	GenBank Acc. No. N86710, April 1, 1996.
EJ	GenBank Acc. No. NM_003374, November 1, 2000.
EK	GenBank Acc. No. NM_003375, November 1, 2000.
EL	GenBank Acc. No. NM_004758, November 1, 2000.
EM	GenBank Acc. No. NM_005038, November 1, 2000.
EN	GenBank Acc. No. NM_005662, November 1, 2000.
EO	GenBank Acc. No. S75494, April 5, 1999.
ER	GenBank Acc. No. S75651, July 27, 1995.
EQ	GenBank Acc. No. U04335, November 8, 1994.
ER	GenBank Acc. No. U17900, January 12, 1999.
ES	GenBank Acc. No. U50388, October 31, 1996.

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FORM PTO-1449 (REV.7-80)	 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 660088.420C1	APPLICATION NO. 09/393,441
		APPLICANTS Christen M. Anderson et al.	
		FILING DATE September 8, 1999	GROUP ART UNIT 1653

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FA						

## FOREIGN PATENT DOCUMENTS


	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
FB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

FC	GenBank Acc. No. U50389, October 31, 1996.
FD	GenBank Acc. No. U68544, September 18, 1996.
FE	GenBank Acc. No. U70314, February 11, 1998.
FF	GenBank Acc. No. U89987, October 4, 2000.
FG	GenBank Acc. No. U89988, October 4, 2000.
FH	GenBank Acc. No. U89989, October 4, 2000.
FI	GenBank Acc. No. X62123, June 8, 1994.
FJ	GenBank Acc. No. Z82214, December 12, 1999.
FK	Gilbert, <i>Developmental Biology</i> , fourth ed., Sinauer Associates, Inc., 1994, Chapter XIV, "Autonomous Cell Specification By Cytoplasmic Determinants," pp. 493-530.
FL	Girón-Calle et al., "Peroxidative Damage to Cardiac Mitochondria: II. Immunological Analysis of Modified Adenine Nucleotide Translocase," <i>Archives of Biochemistry and Biophysics</i> 315(1):1-7, November 15, 1994.
FM	Gottikh et al., "The General Synthetic Route to Amino Acid Esters of Nucleotides and Nucleoside-5'-Triphosphates and Some Properties of These Compounds," <i>Tetrahedron</i> 26:4419-4433, 1970.
FN	Graham et al., "A Mouse Model for Mitochondrial Myopathy and Cardiomyopathy Resulting From a Deficiency in a Heart/Muscle Isoform of the Adenine Nucleotide Translocator," <i>Nature Genetics</i> 16:226-234, July 1997.
FO	Green, "Apoptotic Pathways: The Roads to Ruin," <i>Cell</i> 94:695-698, September 18, 1998.

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	GA						
	GB						

## FOREIGN PATENT DOCUMENTS

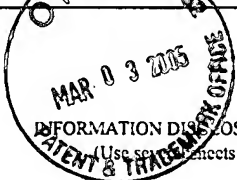
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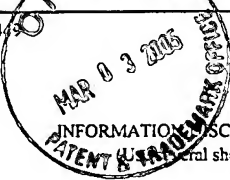
## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	GE	Griffin et al., "Specific Covalent Labeling of Recombinant Protein Molecules Inside Live Cells," <i>Science</i> 281:269-272, July 1998.
	GF	Guzman et al., "Tight Regulation, Modulation, and High-Level Expression by Vectors Containing the Arabinose P <sub>BAD</sub> Promotor," <i>J. of Bacteriology</i> 177(14):4121-4130, July 1995.
	GG	Haendler et al., "Complementary DNA for human T-cell cyclophilin," <i>The EMBO J.</i> 6(4):947-950, 1987.
	GH	Haldimann et al., "Use of New Methods for Construction of Tightly Regulated Arabinose and Rhamnose Promoter Fusions in Studies of the <i>Escherichia coli</i> Phosphate Regulon," <i>J. of Bacteriology</i> 180(5):1277-1286, March 1998.
	GI	Halestrap et al., "Cyclosporin A Binding to Mitochondrial Cyclophilin Inhibits the Permeability Transition Pore and Protects Hearts from Ischaemia/Reperfusion Injury," <i>Molecular and Cellular Biochemistry</i> 174:167-172, 1997.
	GJ	Halestrap et al., "Elucidating the Molecular Mechanism of the Permeability Transition Pore and its Role in Reperfusion Injury of the Heart," <i>Biochimica et. Biophysica Acta</i> 1366:79-94, 1998.
	GK	Halestrap et al., "Oxidative Stress, Thiol Reagents, and Membrane Potential Modulate the Mitochondrial Permeability Transition by Affecting Nucleotide Binding to the Adenine Nucleotide Translocase," <i>The J. of Biological Chemistry</i> 272(6):3346-3354, February 7, 1997.
	GL	Halestrap et al., "Mitochondrial Calcium Handling and Oxidative Stress," <i>Biochemical Society Transactions</i> 21(2):353-358, May 1993.

EXAMINER	DATE CONSIDERED
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FORM PTO-1449 (REV 7-80)		 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 660088.420C1		APPLICATION NO. 09/393,441	
INFORMATION DISCLOSURE STATEMENT (Use separate sheets if necessary)				APPLICANTS Christen M. Anderson et al.		FILING DATE September 8, 1999	
				GROUP ART UNIT 1653			
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	HA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	HB						
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
	BC	Holloway and Bram, "Co-localization of Calcium-Modulating Cyclophilin Ligand with Intracellular Calcium Pools," <i>The J. of Biological Chemistry</i> 273(26):16346-16350, June 1998.					
	HD	Hopp et al., "A Short Polypeptide Marker Sequence Useful for Recombinant Protein Identification and Purification," <i>Bio/Technology</i> 6:1204-1210, October 1988.					
	HE	Hunter and Haworth, "The Ca <sup>2+</sup> -Induced Membrane Transition in Mitochondria: The Protective Mechanisms," <i>Archives of Biochemistry and Biophysics</i> 195(2):453-459, 1979.					
	HF	Ichas and Mazat, "From Calcium Signaling to Cell Death: Two Conformations for the Mitochondrial Permeability Transition Pore. Switching From Low- to High-Conductance State," <i>Biochimica et Biophysica Acta</i> 1366:33-50, 1998.					
	HG	Jäschke et al., "Human T Cell Cyclophilin18 Binds to Thiol-Specific Antioxidant Protein Aop1 and Stimulates its Activity," <i>J. Mol. Biol.</i> 277:763-769, 1998.					
	HH	Jürgensmeier et al., "Bax Directly Induces Release of Cytochrome c From Isolated Mitochondria," <i>Proc. Natl. Acad. Sci. USA</i> 95:4997-5002, April 1998.					
	HI	Kamo et al., "Membrane Potential of Mitochondria Measured with an Electrode Sensitive to Tetraphenyl Phosphonium and Relationship Between Proton Electrochemical Potential and Phosphorylation Potential in Steady State," <i>J. Membrane Biol.</i> 49:105-121, 1979.					
	HJ	Korfron et al., "Determination of Kinetic Constants for Peptidyl Prolyl Cis-Trans Isomerases by an Improved Spectrophotometric Assay," <i>Biochemistry</i> 30:6127-6134, 1991.					
	HK	Kramer, R., "Reconstitution of ADP/ATP Translocase in Phospholipid Vesicles," <i>Methods Enzymol.</i> 125:610-8, 1986.					
	HL	Kroemer et al., "The Biochemistry of Programmed Cell Death," <i>FASEB J.</i> 9:1277-87, October 1995.					
	HM	Kroemer et al., "The Mitochondrial Death/Life Regulator in Apoptosis and Necrosis," <i>Annu. Rev. Physiol.</i> 60:619-642, 1998.					
EXAMINER				DATE CONSIDERED			
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FORM PTO-1435 (REV. 7-80)	 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Additional sheets if necessary)	ATTY. DOCKET NO. 660088.420C1	APPLICATION NO. 09/393,441
		APPLICANTS Christen M. Anderson et al.	
		FILING DATE September 8, 1999	GROUP ART UNIT 1653

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

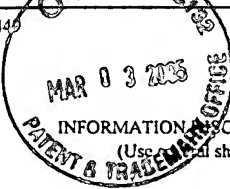
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				YES	NO
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## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

IC	Kroemer, "The Proto-Oncogene Bcl-2 and Its Role in Regulating Apoptosis," <i>Nature Medicine</i> 3(6):614-620, June 1997.
ID	Lau and Chan, "Efflux of Adenine Nucleotides in Mitochondria from Rat Tumor Cells of Varying Growth Rates," <i>Cancer Research</i> 44:4458-4464, October 1984.
IE	Liu et al., "Induction of Apoptotic Program in Cell-Free Extracts: Requirement for dATP and Cytochrome c," <i>Cell</i> 86:147-157, July 12, 1996.
IF	Louvi and Tsitilou, "A cDNA Clone Encoding the ADP/ATP Translocase of <i>Drosophila Melanogaster</i> Shows a High Degree of Similarity with the Mammalian ADP/ATP Translocases," <i>J. Mol. Evol.</i> 35:44-50, 1992.
IG	Lunardi and Attardi, "Differential Regulation of Expression of the Multiple ADP/ATP Translocase Genes in Human Cells," <i>The J. of Biological Chemistry</i> 266(25):16534-16540, September 5, 1991.
IH	Lunardi et al., "The Multiple ADP/ATP Translocase Genes are Differentially Expressed During Human Muscle Development," <i>The J. of Biological Chemistry</i> 267(22):15267-15270, August 5, 1992.
II	Lutz and Bujard, "Independent and Tight Regulation of Transcriptional Units in <i>Escherichia coli</i> Via the LacR/O, the TetR/O and AraC/I <sub>1</sub> -I <sub>2</sub> Regulatory Elements," <i>Nucleic Acids Research</i> 25(6):1203-1210, 1997.
IJ	Mahajan et al., "Bcl-2 and Bax Interactions in Mitochondria Probed with Green Fluorescent Protein and Fluorescence Resonance Energy Transfer," <i>Nature Biotechnology</i> 16:547-552, 1998.
IK	Majima et al., "Binding of the Fluorescein Derivative Eosin Y to the Mitochondrial ADP/ATP Carrier: Characterization of the Adenine Nucleotide Binding Site," <i>Biochemistry</i> 37(1):424-432, January 6, 1998.

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FORM PTO-1445 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 660088.420C1	APPLICATION NO. 09/393,441
 INFORMATION DISCLOSURE STATEMENT (Use additional sheets if necessary)		APPLICANTS Christen M. Anderson et al.	
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JA						

## FOREIGN PATENT DOCUMENTS


	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
JB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JC	Makrides, "Strategies for Achieving High-Level Expression of Genes in <i>Escherichia coli</i> ," <i>Microbiological Reviews</i> 60(3):512-538, September 1996.
JD	Mancini et al., "Flow Cytometric Measurement of Mitochondrial Mass and Function: A Novel Method for Assessing Chemoresistance," <i>Ann. Surg. Oncol.</i> 5(3):287-295, 1998.
JE	Mancini et al., "Mitochondrial Proliferation and Paradoxical Membrane Depolarization During Terminal Differentiation and Apoptosis in a Human Colon Carcinoma Cell Line," <i>The J. of Cell Biology</i> 138(2):449-469, 1997.
JF	Marzo et al., "The Permeability Transition Pore Complex: A Target for Apoptosis Regulation by Caspases and Bcl-2-Related Proteins," <i>J. Exp. Med.</i> 187(8):1261-1271, 1998.
JG	Mayer, "A New Set of Useful Cloning and Expression Vectors Derived From pBlueScript," <i>Gene</i> 163:41-46, 1995.
JH	Murphy and Bredesen, <i>Mitochondria &amp; Free Radicals in Neurodegenerative Diseases</i> , Wiley-Liss, New York, Chapter 8, "Mitochondria, Reactive Oxygen Species, and Apoptosis," pp. 159-186, 1997.
JI	Neckelmann et al., "cDNA Sequence of a Human Skeletal Muscle ADP/ATP Translocator: Lack of a Leader Peptide, Divergence from a Fibroblast Translocator cDNA, and Coevolution with Mitochondrial DNA Genes," <i>Proc. Natl. Acad. Sci. USA</i> 84:7580-7584, November 1987.
JJ	Nelson et al., "Highly Conserved Charge-Pair Networks in the Mitochondrial Carrier Family," <i>J. Mol. Biol.</i> 277(2):285-308, 1998.
JK	Neumann, D., et al., "Induction of Multiple Heart Autoantibodies in Mice with Coxsackievirus B3- and Cardiac Myosin-induced Autoimmune Myocarditis," <i>J. Immunol.</i> 152(1):343-50, January 1, 1994.

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FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 660088.420C1	APPLICATION NO. 09/393,441
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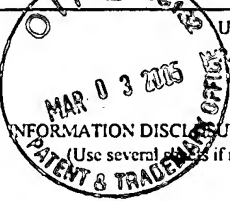
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## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

KC	Newmeyer et al., "Cell-Free Apoptosis in Xenopus Egg Extracts: Inhibition by Bcl-2 and Requirement for an Organelle Fraction Enriched in Mitochondria," <i>Cell</i> 79:353-364, October 21, 1994.
KD	Nicolli et al., "Interactions of Cyclophilin with the Mitochondrial Inner Membrane and Regulations of the Permeability Transition Pore, a Cyclosporin A-Sensitive Channel," <i>The Journal of Biological Chemistry</i> 271(4):2185-2192, January 1996.
KE	O'Gorman et al., "Differential Effects of Creatine Depletion on the Regulation of Enzyme Activities and on Creatine-Stimulated Mitochondrial Respiration in Skeletal Muscle, Heart, and Brain," <i>Biochimica et Biophysica Acta</i> 1276:161-170, 1996.
KF	Obatomi and Bach, "Inhibition of Mitochondrial Respiration and Oxygen Uptake in Isolated Rat Renal Tubular Fragments by Atractyloside," <i>Toxicol. Lett.</i> 89:155-161, 1996.
KG	Paradies et al., "Age-Dependent Decline in the Cytochrome c Oxidase Activity in Rat Heart Mitochondria: Role of Cardiolipin," <i>FEBS Letters</i> 406:136-138, 1997.
KH	Paradies et al., "Lipid Peroxidation and Alterations to Oxidative Metabolism in Mitochondria Isolated from Rat Heart Subjected to Ischemia and Reperfusion," <i>Free Radical Biology &amp; Medicine</i> 27(1/2):42-50, July 1999.
KI	Petit et al., "Disruption of the Outer Mitochondrial Membrane as a Result of Large Amplitude Swelling: The Impact of Irreversible Permeability Transition," <i>FEBS Letters</i> 426:111-116, 1998.
KJ	Porter and Brand, "Causes of Differences in Respiration Rate of Hepatocytes from Mammals of Different Body Mass," <i>American J. of Physiology: Regulatory, Integrative and Comparative Physiology</i> 38(5):R1213-R1224, November 1995.
KK	Portman et al., "Maturation Changes in Gene Expression for Adenine Nucleotide Translocator Isoforms and $\beta$ F <sub>1</sub> -ATPase in Rabbit Heart," <i>Molecular Genetics and Metabolism</i> 66(2):75-79, February 1999.

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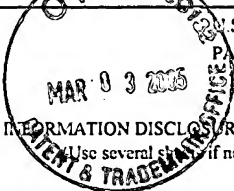
## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

LC	Powers et al., "On the Relationship Between the Mitochondrial Inner Membrane Anion Channel and the Adenine Nucleotide Translocase," <i>The J. of Biological Chemistry</i> 269(14):10614-10620, April 8, 1994.
LD	Rindisbacher, L. et al., "Production of Human Secretory Component with Dimeric IgA Binding Capacity Using Viral Expression Systems," <i>J Biol Chem.</i> 270(23):14220-8, June 9, 1995.
LE	Rück et al., "Reconstituted Adenine Nucleotide Translocase Forms a Channel for Small Molecules Comparable to the Mitochondrial Permeability Transition Pore," <i>FEBS Letters</i> 426(1):97-101, April 10, 1998.
LF	Schwerzmann et al., "Molecular Architecture of the Inner Membrane of Mitochondria from Rat Liver: A Combined Biochemical and Stereological Study," <i>The J. of Cell Biology</i> 102(1):97-103, January 1986.
LG	Sheldon et al., "Strain-Related Brain Injury in Neonatal Mice Subjected to Hypoxia-Ischemia," <i>Brain Research</i> 810:114-122, 1998.
LH	Shinohara et al., "Isolation and Characterization of cDNA Clones and a Genomic Clone Encoding Rat Mitochondrial Adenine Nucleotide Translocator," <i>Biochimica et Biophysica Acta</i> 1152:192-196, 1993.
LI	Simbula et al., "Two Mechanisms by Which ATP Depletion Potentiates Induction of the Mitochondrial Permeability Transition," <i>American J. of Physiology</i> 273:479-488, 1997.
LJ	Stepien et al., "Differential Expression of Adenine Nucleotide Translocator Isoforms in Mammalian Tissues and During Muscle Cell Differentiation," <i>The J. of Biological Chemistry</i> 267(21):14592-14597, July 1992.
LK	Streicher-Scott et al., "Use of Carboxyatractylate and Tight-Binding Inhibitor Theory to Determine the Concentration of Functional Mitochondrial Adenine Nucleotide Translocators in a Reconstituted System," <i>Analytical Biochemistry</i> 210(1):69-76, 1993.

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 INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Christen M. Anderson et al.	
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## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
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MB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MC	Sul et al., "Comparison of the Adenine Nucleotide Translocase in Hepatomas and Rat Liver Mitochondria," <i>Biochimica et Biophysica Acta</i> 551:148-156, 1979.
MD	Susin et al., "Mitochondria as Regulators of Apoptosis: Doubt No More," <i>Biochimica et Biophysica Acta</i> 1366:151-165, 1998.
ME	Taylor et al., "Structures of Cyclophilin-Ligand Complexes," <i>Prog. Biophys. Molec. Biol.</i> 67(2/3):155-181, 1997.
MF	Vayssière et al., "Participation of the Mitochondrial Genome in the Differentiation of Neuroblastoma Cells," <i>In Vitro Cell. Dev. Biol.</i> 28A:763-772, 1992.
MG	Vercesi et al., "The Role of Reactive Oxygen Species in Mitochondrial Permeability Transition," <i>Bioscience Reports</i> 17(1):43-51, 1997.
MH	Wallace et al., <i>Mitochondria &amp; Free Radicals in Neurodegenerative Diseases</i> , Beal, Howell and Bodis-Wollner, Eds., Wiley-Liss, New York, 1997, Chapter 13, "Mitochondrial Defects in Neurodegenerative Diseases," pp. 283-307.
MI	Wenzel-Seifert, K., et al., "Quantitative Analysis of Formyl Peptide Receptor Coupling to g(i)α(1), g(i) α (2), and g(i) α (3)," <i>J. Biol. Chem.</i> 274(47):33259-66, November 19, 1999.
MJ	White and Reynolds, "Mitochondrial Depolarization in Glutamate-Stimulated Neurons: An Early Signal Specific to Excitotoxin Exposure," <i>The J. of Neuroscience</i> 16(18):5688-5697, 1996.
MK	Wilson et al., "The Structure of an Antigenic Determinant in a Protein," <i>Cell</i> 37(3):767-778, July 1984.
ML	Wilson, "Apoptosis: Unmasking the Executioner," <i>Cell Death and Differentiation</i> 5:646-652, 1998.

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## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

NC	Woldegiorgis and Shrago, "Adenine Nucleotide Translocase Activity and Sensitivity to Inhibitors in Hepatomas," <i>The J. of Biological Chemistry</i> 260(12):7585-7590, June 25, 1985.
ND	Woodfield et al., "Direct Demonstration of a Specific Interaction Between Cyclophilin-D and the Adenine Nucleotide Translocase Confirms Their Role in the Mitochondrial Permeability Transition," <i>Biochem. J.</i> 336:287-290, 1998.
NE	Wu et al., "Nup358, a Cytoplasmically Exposed Nucleoporin with Peptide Repeats, Ran-GTP Binding Sites, Zinc Fingers, a Cyclophilin A Homologous Domain, and a Leucine-rich Region," <i>The J. of Biological Chemistry</i> 270(23):14209-14213, June 1995.
NF	Xu et al., "Detection of Programmed Cell Death Using Fluorescence Energy Transfer," <i>Nucleic Acids Research</i> 26(8):2034-2035, 1998.
NG	Yang and Cortopassi, "dATP Causes Specific Release of Cytochrome C from Mitochondria," <i>Biochemical and Biophysical Research Communications</i> 250:454-457, 1998.
NH	Yasuda et al., "Regulation of Apoptosis by a <i>Caenorhabditis Elegans</i> BNIP3 Homolog," <i>Oncogene</i> 17(18):2525-2530, 1999.
NI	Zamzami et al., "Reduction in Mitochondrial Potential Constitutes an Early Irreversible Step of Programmed Lymphocyte Death in Vivo," <i>J. Exp. Med.</i> 181:1661-1672, May 1995
NJ	Zamzami et al., "Sequential Reduction of Mitochondrial Transmembrane Potential and Generation of Reactive Oxygen Species in Early Programmed Cell Death," <i>J. Exp. Med.</i> 182:367-377, August 1995
NK	Zoratti and Szabó, "The Mitochondrial Permeability Transition," <i>Biochimica et Biophysica Acta</i> 1241:139-176, 1995.

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